

Notice of Allowability

Application No.

10/768,400

Examiner

Henry Baron

Applicant(s)

RIMI ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 16 November 2007.
2. ☒ The allowed claim(s) is/are 18-26,29,31 and 33-45.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☒ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Response to Arguments/Remarks

1. In the current application claims 1-42 are pending. Claims 1-17, 27- 28, and 32 are cancelled. Claims 18, 20, 23 - 25, 29 - 31, and 36- 37 are amended, claims 38- 42 are new.
2. The Abstract has been amended to correct the typographical error. The Examiner withdraws the objection to the Abstract
3. An amendment was filed to remedy the typographical error in the specification. The Examiner withdraws the objection to the specification.
4. Applicant filed a terminal disclaimer with respect to U.S. Patent 7,123,929 on 16 November 2007.
5. Examiner acknowledges Applicant remarks of 16 November 2007.
6. Examiner notes claim 25 has been amended to include the subject matter of dependent claim 28 and intervening dependent claim 27 indicated as being patentable over the prior art. Further, independent claims 18, 23, and 36 have been amended to include the subject matter of dependent claims 27 and 28.
7. Examiner has reviewed the new and amended claims and has determined that the amended claims do not change the scope of the original claims but point out and distinctly claim the subject matter of the present invention.
8. After a detailed search, the Examiner finds claims 18 – 26, 29 – 31, and 33 – 45 are in condition for allowance.

Allowable Subject Matter

9. Claims 18 – 26, 29 – 31, and 33 – 45 are allowed in application 10/768,400 in view of an updated search of the prior art.
10. In regards to claims 18 – 26, 29 – 31, and 33 – 45, the Examiner notes that none of references found teach of masking circuits connected downstream of second filters arranged either in series or

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parallel to the output of a second filter or a code generator that cause the respective weights of the masking circuits to change.

11. In an updated search, Examiner found Ostberg (U.S. Patent 6,504,830) performs slot synchronization, detects a frame boundary and long code group, followed by a long code (Figure 4).

Further, Ostberg uses a sliding correlator i.e. a Finite Impulse Response (FIR) filter having 256 taps and an accumulator filter matched to the source. However, Ostberg does not use masking circuits connected downstream of first or second filters.

12. Also in the updated search, Examiner found Hendrickson (U.S. Patent 6,002,710) teaches of recovering the timing of a pseudo-random noise (PN) sequence used for direct-sequence spreading and despreading of the communicated signals where the receiver performs a complete "sliding correlator" examination of the received signal in a fixed time using the timing of the TDMA or TDD frames with a rapid fast tracking acquisition of the PN synchronization. The fast tracking is done for a fixed duration of time followed by a slow tracking where the receiver preferably adjusts its PN phase only if repeated tests consistently indicate a lag or lead in the synchronization. But Hendrickson also does not use masking circuits connected downstream of first or second filters.

13. Neither Ostberg nor Hendrickson nor the prior art of record teach of masking circuits connected downstream of second filters arranged either in series or parallel to the output of a second filter or a code generator that cause the respective weights of the masking circuits to change. The Examiner finds claims 18 – 26, 29 – 31, and 33 – 45 are in condition for allowance.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Baron whose telephone number is (571) 270-1748. The examiner can normally be reached on 7:30 AM to 5:00 PM E.S.T. Monday to Friday.

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15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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KWANG BIN YAO
SUPERVISORY PATENT EXAMINER

A handwritten signature in black ink, appearing to read 'Kwang Bin Yao', is written over the printed name and title.